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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/882,774

DATE: 07/05/2001
TIME: 11:25:37

Input Set : A:\003592-007.ST25.txt
Output Set: N:\CRF3\07052001\I882774.raw

4 <110> APPLICANT: Houston, Michael E.
5 Hodges, Robert
7 <120> TITLE OF INVENTION: Use of Coiled-Coil Structural Scaffold to Generate
8 Structure-Specific Peptides
10 <130> FILE REFERENCE: 003592-007
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/882,774
C--> 12 <141> CURRENT FILING DATE: 2001-06-14
12 <150> PRIOR APPLICATION NUMBER: US 60/211,892
13 <151> PRIOR FILING DATE: 2000-06-14
15 <150> PRIOR APPLICATION NUMBER: US 60/213,387
16 <151> PRIOR FILING DATE: 2000-06-23
18 <160> NUMBER OF SEQ ID NOS: 16
20 <170> SOFTWARE: PatentIn version 3.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 619
24 <212> TYPE: PRT
25 <213> ORGANISM: Streptococcus pneumoniae
27 <400> SEQUENCE: 1
29 Met Asn Lys Lys Lys Met Ile Leu Thr Ser Leu Ala Ser Val Ala Ile
30 1 5 10 15
32 Leu Gly Ala Gly Phe Val Ala Ser Gln Pro Thr Val Val Arg Ala Glu
33 20 25 30
35 Glu Ser Pro Val Ala Ser Gln Ser Lys Ala Glu Lys Asp Tyr Asp Ala
36 35 40 45
38 Ala Lys Lys Asp Ala Lys Asn Ala Lys Lys Ala Val Glu Asp Ala Gln
39 50 55 60
41 Lys Ala Leu Asp Asp Ala Lys Ala Ala Gln Lys Lys Tyr Asp Glu Asp
42 65 70 75 80
44 Gln Lys Lys Thr Glu Glu Lys Ala Ala Leu Glu Lys Ala Ala Ser Glu
45 85 90 95
47 Glu Met Asp Lys Ala Val Ala Val Gln Gln Ala Tyr Leu Ala Tyr
48 100 105 110
50 Gln Gln Ala Thr Asp Lys Ala Ala Lys Asp Ala Ala Asp Lys Met Ile
51 115 120 125
53 Asp Glu Ala Lys Lys Arg Glu Glu Ala Lys Thr Lys Phe Asn Thr
54 130 135 140
56 Val Arg Ala Met Val Val Pro Glu Pro Glu Gln Leu Ala Glu Thr Lys
57 145 150 155 160
59 Lys Lys Ser Glu Glu Ala Lys Gln Lys Ala Pro Glu Leu Thr Lys Lys
60 165 170 175
62 Leu Glu Glu Ala Lys Ala Lys Leu Glu Glu Ala Glu Lys Lys Ala Thr
63 180 185 190
65 Glu Ala Lys Gln Lys Val Asp Ala Glu Glu Val Ala Pro Gln Ala Lys
66 195 200 205
68 Ile Ala Glu Leu Glu Asn Gln Val His Arg Leu Glu Gln Glu Leu Lys
69 210 215 220
71 Glu Ile Asp Glu Ser Glu Ser Glu Asp Tyr Ala Lys Glu Gly Phe Arg

ENTERED

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72	225	230	235	240
74	Ala Pro Leu Gln Ser Lys Leu Asp Ala Lys Lys Ala Lys Leu Ser Lys			
75		245	250	255
77	Leu Glu Glu Leu Ser Asp Lys Ile Asp Glu Leu Asp Ala Glu Ile Ala			
78		260	265	270
80	Lys Leu Glu Asp Gln Leu Lys Ala Ala Glu Glu Asn Asn Asn Val Glu			
81		275	280	285
83	Asp Tyr Phe Lys Glu Gly Leu Glu Lys Thr Ile Ala Ala Lys Lys Ala			
84		290	295	300
86	Glu Leu Glu Lys Thr Glu Ala Asp Leu Lys Lys Ala Val Asn Glu Pro			
87		305	310	315
89	Glu Lys Pro Ala Pro Ala Pro Glu Thr Pro Ala Pro Glu Ala Pro Ala			
90		325	330	335
92	Glu Gln Pro Lys Pro Ala Pro Ala Pro Gln Pro Ala Pro Ala Pro Lys			
93		340	345	350
95	Pro Glu Lys Pro Ala Glu Gln Pro Lys Pro Glu Lys Thr Asp Asp Gln			
96		355	360	365
98	Gln Ala Glu Glu Asp Tyr Ala Arg Arg Ser Glu Glu Tyr Asn Arg			
99		370	375	380
101	Leu Thr Gln Gln Gln Pro Pro Lys Ala Glu Lys Pro Ala Pro Ala Pro			
102		385	390	395
104	400			
105	Lys Thr Gly Trp Lys Gln Glu Asn Gly Met Trp Tyr Phe Tyr Asn Thr			
107		405	410	415
108	Asp Gly Ser Met Ala Thr Gly Trp Leu Gln Asn Asn Gly Ser Trp Tyr			
109		420	425	430
110	Tyr Leu Asn Ser Asn Gly Ala Met Ala Thr Gly Trp Leu Gln Tyr Asn			
111		435	440	445
113	Gly Ser Trp Tyr Tyr Leu Asn Ala Asn Gly Ala Met Ala Thr Gly Trp			
114		450	455	460
116	116 Ala Lys Val Asn Gly Ser Trp Tyr Tyr Leu Asn Ala Asn Gly Ala Met			
117		465	470	475
119	480			
120	Ala Thr Gly Trp Leu Gln Tyr Asn Gly Ser Trp Tyr Tyr Leu Asn Ala			
122		485	490	495
123	Asn Gly Ala Met Ala Thr Gly Trp Ala Lys Val Asn Gly Ser Trp Tyr			
125		500	505	510
126	Tyr Leu Asn Ala Asn Gly Ala Met Ala Thr Gly Trp Leu Gln Tyr Asn			
128		515	520	525
129	Gly Ser Trp Tyr Tyr Leu Asn Ala Asn Gly Ala Met Ala Thr Gly Trp			
131		530	535	540
132	131 Ala Lys Val Asn Gly Ser Trp Tyr Tyr Leu Asn Ala Asn Gly Ala Met			
134		545	550	555
135	560			
137	Ala Thr Gly Trp Val Lys Asp Gly Asp Thr Trp Tyr Tyr Leu Glu Ala			
138		565	570	575
140	Ser Gly Ala Met Lys Ala Ser Gln Trp Phe Lys Val Ser Asp Lys Trp			
141		580	585	590
143	Tyr Tyr Val Asn Gly Leu Gly Ala Leu Ala Val Asn Thr Thr Val Asp			
144		595	600	605
	610	615		

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147 <210> SEQ ID NO: 2
148 <211> LENGTH: 40
149 <212> TYPE: PRT
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: stabilizing strand
155 <220> FEATURE:
156 <221> NAME/KEY: MOD_RES
157 <222> LOCATION: (2)
158 <223> OTHER INFORMATION: Nle
160 <400> SEQUENCE: 2
W--> 162 Cys Xaa Gly Gly Gly Glu Ile Glu Ala Leu Lys Lys Glu Ile Glu Ala
163 1 5 10 15
165 Leu Lys Lys Glu Ile Glu Ala Leu Lys Lys Glu Ile Glu Ala Leu Lys
166 20 25 30
168 Lys Glu Ile Glu Ala Leu Lys Lys
169 35 40
171 <210> SEQ ID NO: 3
172 <211> LENGTH: 38
173 <212> TYPE: PRT
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: hybrid sequence
179 <220> FEATURE:
180 <221> NAME/KEY: MOD_RES
181 <222> LOCATION: (2)
182 <223> OTHER INFORMATION: Nle
184 <400> SEQUENCE: 3
W--> 186 Cys Xaa Gly Ile Glu Glu Leu Glu Lys Lys Ile Thr Glu Leu Lys Gln
187 1 5 10 15
189 Lys Ile Asp Ala Leu Glu Asn Gln Ile His Arg Leu Glu Gln Glu Ile
190 20 25 30
192 Lys Glu Leu Asp Glu Ser
193 35
195 <210> SEQ ID NO: 4
196 <211> LENGTH: 38
197 <212> TYPE: PRT
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: hybrid sequence
203 <220> FEATURE:
204 <221> NAME/KEY: MOD_RES
205 <222> LOCATION: (2)
206 <223> OTHER INFORMATION: Nle
208 <400> SEQUENCE: 4
W--> 210 Cys Xaa Gly Leu Glu Ala Glu Lys Lys Ala Thr Glu Ala Lys Gln
211 1 5 10 15
213 Lys Val Asp Ala Leu Glu Asn Gln Val His Arg Leu Glu Gln Glu Leu
214 20 25 30

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216 Lys Glu Ile Asp Glu Ser
217 35
219 <210> SEQ ID NO: 5
220 <211> LENGTH: 20
221 <212> TYPE: PRT
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: consensus sequence
227 <220> FEATURE:
228 <221> NAME/KEY: PEPTIDE
229 <222> LOCATION: (4)..(20)
230 <223> OTHER INFORMATION: Amino acids 4, 5, 12, 16 and 20 are Xaa wherein Xaa = any

amino

231 acid
233 <400> SEQUENCE: 5
W--> 235 Glu Glu Leu Xaa Xaa Lys Ile Asp Glu Leu Asp Xaa Glu Ile Ala Xaa
236 1 5 10 15

W--> 238 Leu Glu Lys Xaa

239 20
241 <210> SEQ ID NO: 6
242 <211> LENGTH: 8
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: consensus sequence
249 <400> SEQUENCE: 6

251 Glu Glu Leu Ser Asp Lys Ile Asp

252 1 5
254 <210> SEQ ID NO: 7
255 <211> LENGTH: 27
256 <212> TYPE: PRT
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:

260 <223> OTHER INFORMATION: hybrid sequence

262 <220> FEATURE:
263 <221> NAME/KEY: MOD_RES
264 <222> LOCATION: (2)

265 <223> OTHER INFORMATION: Nle

267 <400> SEQUENCE: 7

W--> 269 Cys Xaa Gly Glu Ile Glu Ala Leu Lys Lys Ile Glu Glu Leu Ser
270 1 5 10 15

272 Asp Lys Ile Asp Glu Leu Glu Lys Glu Ile Lys
273 20 25

275 <210> SEQ ID NO: 8
276 <211> LENGTH: 21
277 <212> TYPE: PRT

278 <213> ORGANISM: Haemophilus influenzae

280 <400> SEQUENCE: 8
282 Ile Lys Lys Val Leu Glu Ile Gly Leu Asn Met Ser Gln Glu Ala Ser
283 1 5 10 15

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Input Set : A:\003592-007.ST25.txt
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285 Asn Leu Thr Ser Ala
286 20
288 <210> SEQ ID NO: 9
289 <211> LENGTH: 27
290 <212> TYPE: PRT
291 <213> ORGANISM: Artificial Sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: hybrid sequence
296 <400> SEQUENCE: 9
298 Glu Ala Glu Ile Lys Lys Leu Leu Glu Ile Ile Leu Asn Leu Ser Gln
299 1 5 10 15
301 Glu Ile Ser Asn Leu Thr Ser Ala Leu Lys Gly
302 20 25
304 <210> SEQ ID NO: 10
305 <211> LENGTH: 20
306 <212> TYPE: PRT
307 <213> ORGANISM: Streptococcus pneumoniae
309 <400> SEQUENCE: 10
311 Leu Glu Lys Asp Val Glu Asp Phe Lys Asn Ser Asp Gly Glu Gln Ala
312 1 5 10 15
314 Glu Gln Val Leu
315 20
317 <210> SEQ ID NO: 11
318 <211> LENGTH: 15
319 <212> TYPE: PRT
320 <213> ORGANISM: Streptococcus pneumoniae
322 <400> SEQUENCE: 11
324 Leu Glu Asp Asn Leu Lys Asp Ala Glu Thr Asn Asn Val Glu Asp
325 1 5 10 15
327 <210> SEQ ID NO: 12
328 <211> LENGTH: 10
329 <212> TYPE: PRT
330 <213> ORGANISM: Streptococcus pneumoniae
332 <400> SEQUENCE: 12
334 Leu Ala Lys Lys Gln Thr Glu Leu Glu Lys
335 1 5 10
337 <210> SEQ ID NO: 13
338 <211> LENGTH: 35
339 <212> TYPE: PRT
340 <213> ORGANISM: Artificial Sequence
342 <220> FEATURE:
343 <223> OTHER INFORMATION: hybrid sequence
345 <400> SEQUENCE: 13
347 Asp Val Glu Asp Phe Lys Asn Ser Asp Gly Glu Leu Glu Asp Asn Leu
348 1 5 10 15
350 Lys Asp Ala Glu Thr Asn Asn Val Glu Asp Ala Lys Lys Gln Thr Glu
351 20 25 30
353 Leu Glu Lys
354 35

FYF

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
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Input Set : A:\003592-007.ST25.txt
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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16